

This is a RED Stamp

**ROCKY FLATS PLANT  
EMD OPERATING  
PROCEDURES MANUAL**

**Manual No.: 5-21000-OPS-FO**  
**Procedure No.: Table of Contents, Rev 50**  
**Page: 1 of 4**  
**Effective Date: 06/29/93**  
**Organization: Environmental Management**

**THIS IS ONE VOLUME OF A SIX VOLUME SET WHICH INCLUDES:**

**VOLUME I: FIELD OPERATIONS (FO)**  
**VOLUME II: GROUNDWATER (GW)**  
**VOLUME III: GEOTECHNICAL (GT)**  
**VOLUME IV: SURFACE WATER (SW)**  
**VOLUME V: ECOLOGY (EE)**  
**VOLUME VI: AIR (AP)**

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FOR VOLUME I: FIELD OPERATIONS**

<b><u>Procedure No.</u></b>	<b><u>Title</u></b>	<b><u>Rev. No.</u></b>	<b><u>Effective Date</u></b>
FO.01	Air Monitoring and Dust Control	2	05/12/92
FO.02	Transmittal of Field QA Records	3	05/22/92
DCN 93.01	Working Base Maps	3	05/12/93
FO.03	General Equipment Decontamination	2	05/12/92
DCN 92.01	EXPIRED (Clarification of Decontamination)	2	Expired
DCN 92.02	Update to Clarification of Decontamination	2	12/12/92
DCN 93.01	CPT Rods	2	02/16/93
FO.04	Heavy Equipment Decontamination	2	05/12/92
DCN 92.01	Expired	1	Expired
DCN 92.02	Expired	1	Expired
DCN 92.03	Consistency Change	1	09/18/92
DCN 92.04	Update to Clarification of Decontamination	2	12/17/92
FO.05	Handling of Purge and Development Water	2	05/12/92
FO.06	Handling of Personal Protective Equipment	2	05/12/92
DCN 92.01	Monitoring Change	2	09/18/92
DCN 93.01	Plastic Bagging Modification	2	02/17/93

**ADMIN RECORD**

A-SW-001014

**DOCUMENT CLASSIFICATION REVIEW WAIVER  
PER R.B. HOFFMAN, CLASSIFICATION OFFICE  
JUNE 11, 1991**

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**06/29/93**  
**Environmental Management**

<b><u>Procedure No.</u></b>	<b><u>Title</u></b>	<b><u>Rev. No.</u></b>	<b><u>Effective Date</u></b>
FO.07	Handling of Decontamination Water and Wash Water	2	05/12/92
DCN 92.01	Consistency Change	2	09/18/92
FO.08	Handling of Drilling Fluids and Cuttings	2	05/12/92
DCN 92.04	EXPIRED (Clarification of Drill Cuttings)	2	Expired
DCN 92.05	EXPIRED (Handling of Drilling Fluids and Cuttings)	2	Expired
DCN 92.06	Clarification of Responsibility	2	09/09/92
DCN 92.07	Elimination of Drilling Requirements on Earthen Dams	2	09/10/92
DCN 92.08	Consistency Change	2	09/18/92
DCN 92.09	Clarification of Augering Technique for OU-6	2	10/28/92
DCN 92.10	Improve Tracking of Samples	2	12/07/92
•DCN 93.01	Better Consistency of Drum Handling	2	06/29/93
FO.09	Handling of Residual Samples	2	05/12/92
FO.10	Receiving, Labeling, and Handling Environmental Materials Containers	2	05/12/92
DCN 92.03	EXPIRED (Replaced by DCN 93.01 dated 2/10/93)	2	Expired
DCN 92.04	EXPIRED (Decrease in Weekly Inspections of Gray Drums)	3	Expired
DCN 92.05	Requirement Reduction	2	09/16/92
DCN 92.06	Improve Accountability	2	10/15/92
DCN 92.07	Expired	2	Expired
DCN 92.08	Drum Log F or M Change	2	12/03/92
DCN 93.01	Clarification on Drums (REPLACES DCN 92.03)	2	02/10/93
DCN 93.02	Renewal (DCN 92.07)	2	03/17/93
DCN 93.03	Number of Drums per Pallet	2	05/11/93
DCN 93.04	Sample to Drum Traceability	2	06/23/93
•DCN 93.05	Drum Labeling Change	2	06/29/93
•DCN 93.06	Drum Sample Numbers	2	06/29/93
FO.11	Field Communications	2	05/12/92
FO.12	Decontamination Facility Operations	2	05/12/92
DCN 93.01	Tank Inspection Log	2	04/13/93

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<b>Procedure No.</b>	<b>Title</b>	<b>Rev. No.</b>	<b>Effective Date</b>
FO.13	Containerization, Preserving, Handling and Shipping of Soil and Water Samples	2	05/12/92
DCN 92.01	Chain of Custody	2	07/27/92
DCN 92.02	Improve Tracking of Samples	2	12/08/92
DCN 93.01	Chain of Custody Record	2	02/10/93
DCN 93.02	Air Bill COC	2	05/18/93
FO.14	Field Data Management	2	05/12/92
DCN 92.01	EXPIRED (Update Bottle Codes and Lab Codes to Current Status)	2	Expired
DCN 92.02	Clarification of Biological Locations (07/08/92- Extended)	2	11/20/92
DCN 92.03	Changes in Procedures (07/08/92 - Extended)	2	11/20/92
DCN 92.04	Expired	2	Expired
DCN 92.05	Update QA/QC Code List	2	09/28/92
DCN 92.06	Clarify Description	2	09/28/92
DCN 92.07	Update Bottle Code List	2	09/28/92
DCN 92.08	Add Sub-Contractor Abbreviations	2	10/14/92
DCN 92.09	Major Form Revision	2	11/03/92
DCN 92.10	Elimination of Non-Required Section	2	11/10/92
DCN 92.11	Update Bottle Code & Lab Codes to Current Status	2	12/09/92
DCN 93.01	New Codes	2	01/15/93
DCN 93.02	New Samplers and New Media	2	01/15/93
DCN 93.03	Field Data for RFEDS	2	02/10/93
DCN 93.04	RFEDS Back-up	2	03/18/93
FO.15	Photoionization Detectors (PIDs) and Flame Ionization Detectors (FIDs)	2	05/12/92
FO.16	Field Radiological Measurements	2	05/12/92
DCN 92.04	EXPIRED (Seismic Lines)	1	Expired
DCN 92.05	Addition of HPGe	2	11/24/92
DCN 93.01	FIDLER Surveys	2	01/15/93
•DCN 93.02	LUDLUM/FIDLER Guidance	2	06/29/93
FO.17	Determining Out-Of-Specification Analytical Results for Environmental Samples		To Be Added

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<b><u>Procedure No.</u></b>	<b><u>Title</u></b>	<b><u>Rev. No.</u></b>	<b><u>Effective Date</u></b>
FO.18	Environmental Sample Radioactivity		
	Content Screening	1	05/12/92
DCN 93.01	Clarification of Procedure	1	01/11/93
FO.19	Base Laboratory Work	2	05/12/92

**ENVIRONMENTAL MANAGEMENT  
DOCUMENT CHANGE NOTICE (DCN)**

This is a RED Stamp  
Procedure Number 5-21000-OPS- FO.8, Rev.2

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Title <b>Handling of Drilling Fluids and Cuttings</b>	Date <b>6-29-93</b>	DCN Number <b>5-21000-OPS-9301</b>
Expires <b>6-29-94</b> <i>see</i>	Procedure Revision Required <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>see</i>
Scope Limitation <b>none</b>		

Item Number	Page	Step or Paragraph	Changes (Use DCN CONTINUATION SHEET for Additional Space)
1	2 of 12	3.0 paragraph 3	(substitute the following paragraph for the current paragraph) The subcontractor is responsible for the drumming of drill cuttings. Drums containing cuttings will be transferred to the custody of EG&G, ER-Facilities Operation Management (FOM) only after all necessary paperwork has been received, accepted, and the drums have passed a final inspection. Characterization will be based on the analytical results associated with the drums' contents. The drums contents will be containerized in accordance to the EG&G Waste Requirements Procedures Manual, 5-23000-WRP; the EG&G Waste Requirements Manual, 1-10000-WRM; and EMD Operating Procedures, 5-21000, Volume 1, FO.08 section 6.4.1, and FO.10. <i>6-24-93</i>
2	2 of 12	3.0 paragraph 4	(add underlined to the end of the sentence) The subcontractor is also responsible for moving environmental liquids associated with EM drilling activities to holding tanks located at the main EG&G decontamination facility <u>and drill cuttings to an Investigation Derived Materials (IDM) accumulation area per FO.10.</u>
3	2 of 12	3.0 paragraph 5	(Substitute the first sentence with the following) It is the subcontractor's site manager's responsibility to report as soon as possible to the EG&G, ER-FOM representative any damage <del>occurred</del> to a drum. <i>6-25-93</i>

Justification (Reason for Change - Provide Numbers To Reference Corresponding Items Above)

all item #s:

To obtain consistency between FO.08 and FO.10.

DOCUMENT CLASSIFICATION REVIEW WAIVER  
PER R.B. HOFFMAN, CLASSIFICATION OFFICE  
JUNE 11, 1991

Concurrence	Organization	Req	Date	Concurrence	Organization	Req	Date
<i>[Signature]</i>	QAPM	X	6/28/93	<i>[Signature]</i>	User	X	6/18/93
				<i>[Signature]</i>	User	X	6/18/93
				<i>[Signature]</i>	EQS	X	6/23/93
	DOE <i>MCB</i> 6/24/93	X		<i>[Signature]</i>	User	X	6/24/93
Approval of Responsible Manager <i>[Signature]</i>		Date <b>6-21-93</b>		Is Posting Req'd? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		If Yes, By What Date? <b>upon receipt</b>	
						Date Posted	

# DOCUMENT CHANGE NOTICE (DCN) (continuation sheet)

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DCN Number 9301  
*SAR*

Procedure Number 5-21000-OPS-FO.8, REV.2	Title Handling of Drilling Fluids and Cuttings
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Scope Limitation none

Item Number	Page	Step or Paragraph	Changes (Use DCN CONTINUATION SHEET for Additional Space)
4	3 of 12	3.0 paragraph 6	(substitute the following for the entire paragraph) The EG&G project manager will use subcontractor peronnel to conduct weekly inspections of all the drums issued to the subcontractor until the drums are relinquished to the custody of EG&G, ER-Facilities Operations Management, (FOM). These inspections will ensure that the drum integrity, drum management, and drum labeling is maintained.
5	5 of 12	5.0	EQUIPMENT <u>Add</u> Plastic drum liners for drums
6	6 of 12	6.0 paragraph 1	CONTAMINANT CHARACTERIZATION <u>Add</u> Potential Areas of Concern (PACs) Additional Areas of Concern (AACs) <u>Delete</u> Protected Area (PA)

Justification (Reason for Change – Provide Numbers To Reference Corresponding Items Above)

*all item #'s:*

To obtain consistency between FO.08 and FO.10

# DOCUMENT CHANGE NOTICE (DCN) (continuation sheet)

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DCN Number 9301  
SLRD

Procedure Number 5-21000-OPS-FO.8, REV.2	Title Handling of Drilling Fluids and Cuttings
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Scope Limitation none

Item Number	Page	Step or Paragraph	Changes (Use DCN CONTINUATION SHEET for Additional Space)
7	6 of 12	6.0 paragraph 2	(add underlined at the end of first sentence) Drill cuttings generated during EM field operations will be handled by containerizing them in 55 gallon or 30 gallon gray drums as they are generated, <u>with the exception of EM field operations within the dams. EM field operations conducted off-site or if the drillsite does not require drumming.</u>
8	10 of 12	6.4.1 paragraph 1	(add underlined and remove underlined in parentheses) Handling Drill Cuttings Drill cuttings will be contained in gray, <u>open top drums with liners</u> (See SOP FO.10 Receiving, Labeling, and Handling Environmental Containers), <u>(regardless of the work area characterization)</u> . Prior to the filling of the drum <u>a minimum of two liters of desiccant will be placed in the bottom of the drum liner and a minimum of two additional liters will be put in the drum when it is half full.</u> Cuttings will be placed in the drum up to six inches from the top. After filling, these gray drums will be sealed, marked, and placed on a leveled pallet at the drilling site. <u>Both empty and filled drums must be stored on pallets with no more than three 55 gallon or four 30 gallon drums per pallet.</u> Once the laboratory analytical results of the environmental samples <u>have been received they will be assessed by EG&amp;G. If the drums contents are determined to be uncontaminated or pose no risk, the contents will be disposed of ( in the landfill) and the container, if in good condition, will be repainted, renumbered, and reused.</u> If the drums contents are determined to contain hazardous substances, mixed  (if required) <u>see DCN 92.10</u> <u>6/23/93</u>

Justification (Reason for Change – Provide Numbers To Reference Corresponding Items Above)

all item #s:

To obtain consistency between FO.08 and FO.10

**DOCUMENT CHANGE NOTICE (DCN)**  
(continuation sheet)

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DCN Number 93.01  
5220

Procedure Number 5-21000-OPS-FO.8, REV.2	Title Handling of Drilling Fluids and Cuttings
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Scope Limitation none

Item Number	Page	Step or Paragraph	Changes (Use DCN CONTINUATION SHEET for Additional Space)
8	10 of 12	6.4.1 paragraph (contd)	substances, or radioactive substances, ( <u>the drums will be painted . . .</u> ) <u>the contents will remain in gray drums until the Record of Decision (ROD) and remediation requirements are decided upon or repack/ship is determined</u>
9	12 of 12	6.4.2 paragraph 3	The residual sediments will be placed in gray grums according to section 6.4.1 of this procedure; FO.10; and the EG&G WRM, section WP 1027.

Justification (Reason for Change – Provide Numbers To Reference Corresponding Items Above)

All item #s:

To obtain consistency between FO.08 and FO.10